



Indian Standard

(Reaffirmed 2012)

# SPECIFICATION FOR GOUGES, STILLE PATTERN. ORTHOPAEDIC

1. **Scope** — Dimensions and requirements for Stille pattern orthopaedic gouges.

2. **Material** — Stainless steel conforming to Designation 30Cr13 of Schedule V of IS : 1570-1961\* or stainless steel with the following composition:

	Percent
Carbon	0.35 to 0.45
Silicon	0.6 Max
Manganese	0.6 Max
Chromium	12 to 14
Nickel	0.6 Max
Sulphur	0.03 Max
Phosphorous	0.03 Max

3. **Shape and Dimensions** — As shown in Fig 1

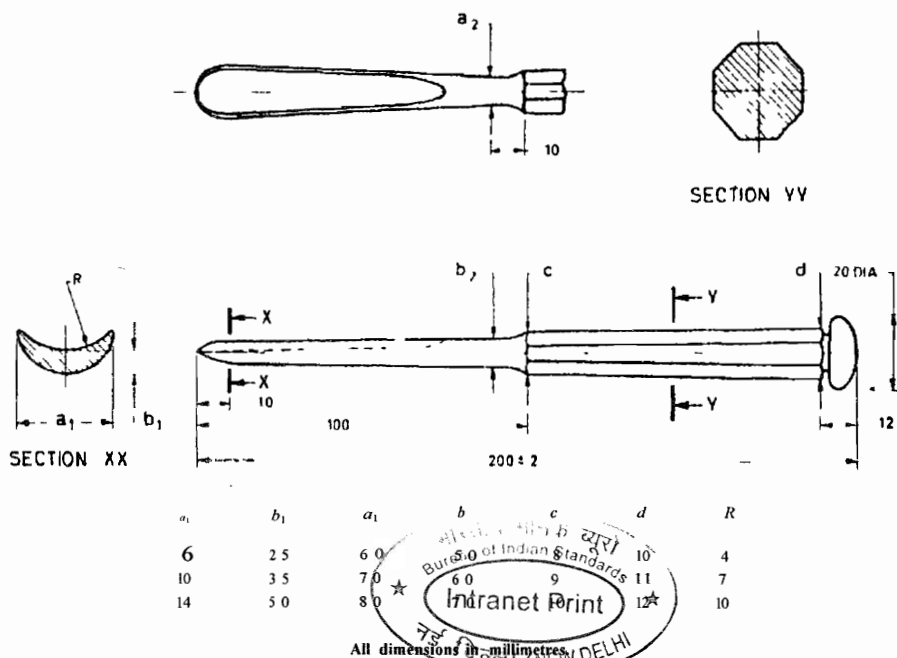


FIG 1 GOUGE, STILLE PATTERN

## 4. Requirements

4.1 **Workmanship** — All surfaces shall be free from pits, burrs, cracks and other surface defects. The cutting edge of the instrument shall be properly sharpened and shall be free from burrs, feathers, nicks and waviness. All the other edges shall be even.

\*Schedules for wrought steels for general engineering purposes

Adopted 9 April 1970

© July 1970

Gr 1

INDIAN STANDARDS INSTITUTION  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

**AMENDMENT NO. 1    JUNE 1979**  
**TO**  
**IS:5601-1970   SPECIFICATION FOR GOUGES, STILLE**  
**PATTERN, ORTHOPAEDIC**

**Alteration**

( *Page 2, clause 4.4* ) — Substitute the following for the existing clause:

'4.4 The gouge shall be held in one hand firmly with the edge making an angle of 45° on to a long, hard and dry sheep bone of 10 mm thickness approximately. The bone shall be shaped by chiselling, using the hammer conforming to IS : 5585-1970' Specification for matter rubber-capped'. After 20 strokes the head of the gouge shall not become mushroom shaped and the edge shall not show any deformation.'

**Addendum**

( *Page 1, clause 3* ) — Add the following new clause after 3???

"3.1 A deviation of  $\pm 2.5$  percent shall be allowed on all dimensions.'

(CPDC 24)

**4.2 Finish**— The instrument shall be suitably passivated and finished smooth and bright.

**4.3 Hardness**— The instrument shall be hardened and tempered to 500 to 550 HV.

**4.4 Performance**— The gouge shall be held in one hand firmly with the edge making an angle of 45° on to a long hard and dry sheep bone. The bone shall be shaped by chiselling, using 1 kg hammer. After 20 strokes the head of the gouge shall not become mushroom shaped and the edge shall not show any deformation.

**4.5 Corrosion Resistance (Copper Sulphate Test)**— Scrub the sample with soap and warm water, rinse in hot water, and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool. Make up the solution as follows:

Copper sulphate ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	4.0 g
Sulphuric acid ( $\text{H}_2\text{SO}_4$ ) (sp gr 1.84)	10.0 g
Water ( $\text{H}_2\text{O}$ )	90.0 ml

No red stains or spots on the sample shall be allowed but dulling of the polished surface may be permitted.

**5. Marking**— Shall be legibly and indelibly marked with the manufacturer's name or initials or recognized trade-mark.

**5.1 ISI Certification Marking**— Details available from the Indian Standards Institution, New Delhi 1.

**6 Packing**— Shall be at agreed to between the purchaser and the supplier.